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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,322	01/26/2004	Wen-pin Wang	MR1111-1225	6963
4586	7590	08/16/2005	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			JOHNSON, VICKY A	
			ART UNIT	PAPER NUMBER
			3682	

DATE MAILED: 08/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/763,322	Applicant(s) WANG, WEN-PIN	
	Examiner Vicky A. Johnson	Art Unit 3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because on page 4 lines 10-15, a description of the rivet 4 is given, which states that the outer diameter is slightly larger than the inner diameters of the holes 11, 21, and 31. It is unclear how the parts can be assembled from the description. On page 4 lines 19-25, the fastener 5 is described as being pressed into the holes 31, 21, and 11. The fastener 5 does not contact the holes the rivet 4 contacts the holes and the fastener is threaded into the rivet. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campagnolo (US 6,364,799) in view of Bauman (US 5,376,055).

Campagnolo discloses a chain connecting device comprising a roller (I) having a hole at a center thereof (see Fig 4); a pair of inner chain plates (G) pivotally connected to said roller (see Fig 4), each inner chain plate comprising a pair of holes (see Fig 4); a pair of outer chain plates (A) pivotally connected to outer edges of said inner chain plates (see Fig 4), each outer chain plate comprising a pair of holes (see Fig 4); a rivet (5) inserted through said holes of said roller, said inner chain plates and said outer

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chain plates (see Fig 4) said rivet further comprising a tab at another end (unnumbered, see Fig 4), further comprising a fastener (12), said hole of each outer chain plate comprising an enlarged section on an outer edge (see Fig 4).

Campagnolo does not disclose the rivet having a blind hole with inner threads at one end and the fastener comprising a shank with threads and a tab on the end opposing said shank.

Baumen teaches the use of a rivet (64) having a blind hole (see Fig 9) with inner threads (70) at one end and a fastener (60) comprising a shank (66) with threads and a tab (76) on the end opposing the shank.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a rivet having a blind hole with inner threads at one end and a fastener comprising a shank with threads and a tab on the end opposing said shank in the chain of Campagnolo as taught by Bauman in order to ease assembly.

Re claim 4, Baumen shows said tab of said fastener comprises cross cut (see Fig 8A).

Re claim 5, the method of making a device is not germane to the patentability of the device itself.

Re claim 6, Baumen shows, said rivet comprises a reduced section at one end (see Fig 10).

4. Claims 1, 2, 5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campagnolo (US 6,364,799) in view of Kammerer (US 2,780,830).

Campagnolo discloses a chain connecting device comprising a roller (I) having a hole at a center thereof (see Fig 4); a pair of inner chain plates (G) pivotally connected to said roller (see Fig 4), each inner chain plate comprising a pair of holes (see Fig 4); a pair of outer chain plates (A) pivotally connected to outer edges of said inner chain plates (see Fig 4), each outer chain plate comprising a pair of holes (see Fig 4); a rivet (5) inserted through said holes of said roller, said inner chain plates and said outer chain plates (see Fig 4) said rivet further comprising a tab at another end (unnumbered, see Fig 4), further comprising a fastener (12), said hole of each outer chain plate comprising an enlarged section on an outer edge (see Fig 4).

Campagnolo does not disclose the rivet having a blind hole with inner threads at one end and the fastener comprising a shank with threads and a tab on the end opposing said shank.

Kammerer teaches the use of a rivet (10) having a blind hole (see Fig 2) with inner threads (27) at one end and a fastener (28) comprising a shank (see Fig 2) with threads and a tab (29) on the end opposing the shank.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a rivet having a blind hole with inner threads at one end and a fastener comprising a shank with threads and a tab on the end opposing said shank in the chain of Campagnolo as taught by Kammerer in order to ease assembly.

Re claim 2, Kammerer shows the blind hole of the rivet is formed in a reversed cone shape (see Fig 2).

Re claim 5, the method of making a device is not germane to the patentability of the device itself.

Re claim 6, Kammerer shows, said rivet comprises a reduced section (35) at one end (see Fig 1).

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Campagnolo (US 6,364,799) in view of Bauman (US 5,376,055) as applied to claims 1 and 4-6 are above, and further in view of Wesner (US 4,154,276).

Campagnolo discloses a chain as described above, but does not disclose are the threads of the shank of the fastener applied with antiskid material.

Wesner teaches the use of threads of the shank (1) of the fastener applied with antiskid material (4).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include antiskid material on the fastener of Campagnolo as taught by Wesner in order to ease assembly.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Campagnolo (US 6,364,799) in view of Kammerer (US 2,780,830) as applied to claims 1, 2, 5, and 6 are above, and further in view of Wesner (US 4,154,276).

Campagnolo discloses a chain as described above, but does not disclose are the threads of the shank of the fastener applied with antiskid material.

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Wesner teaches the use of threads of the shank (1) of the fastener applied with antiskid material (4).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include antiskid material on the fastener of Campagnolo as taught by Wesner in order to ease assembly.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


CH 614374	Braun	(antiskid material)
5,151,066	Wu	(chain)
5,425,679	Utz	(screw)
4,378,719	Burgess	(screw)
5,224,904	Ono et al	(chain)
5,465,568	Wang	(chain)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (571) 272-7106. The examiner can normally be reached on Monday-Friday (7:00a-3:30p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (571) 272-7099. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Vicky A. Johnson 8/11/05  
Examiner  
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